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CHAPTER II

TRANSMITTAL LETTER TO THE UNITED STATES ELECTED OFFICE (EO/US) (ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

PCT/IE99/00012

25 February 1999

25 February 1998

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

410 Rec'i

PRIORITY DATE CLAIMED

HLA LINKED PRE-ECLAMPSIA AND MISCARRIAGE SUSCEPTIBILITY GENE

TITLE OF INVENTION

Margaret O'BRIEN, John BERMINGHAM, Kathleen A. QUANE, David M. JENKINS, and

Tommie V. McCARTHY

APPLICANTS

Box PCT

Assistant Commissioner for Patents

Washington D.C. 20231

ATTENTION: EO/US

To avoid abandonment of the application, the applicant shall furnish to the USPTO, not later than 20 months from the priority date: (1) a copy of the international application, unless it has been previously communicated by the

International Bureau or unless it was originally filed in the USPTO; and (2) the basic national fee (see 37 C.F.R. § 1.492(a)). The 30-month time limit may not be extended. 37 C.F.R. § 1.495.

WARNING:

Where the items are those which can be submitted to complete the entry of the international application into the national phase are subsequent to 30 months from the priority date the application is still considered to be in the international state and if mailing procedures are utilized to obtain a date the express mail procedure of 37 C.F.R. §1.10 must be used (since international application papers are not covered by an ordinary certificate of mailing - See 37 C.F.R. §1.8.

NOTE:

Documents and fees must be clearly identified as a submission to enter the national state under 35 USC 371 otherwise the submission will be considered as being made under 35 USC 111. 37 C.F.R. § 1.494(f).

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this , in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EK493902385US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Deanna M. Rivernider

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of \$7 C.F.R \ 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon

prior to mailing. 37 C.F.R. § 1.10(b).

'Since the filing of correspondence under \S 1.10 without the Express Meil mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition.' Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.



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- 1. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. 371:
 - a. [X] This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
 - b. [X] The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees (37 C.F.R. § 1.492) as indicated below:

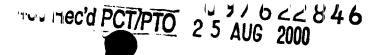
2. Fees

FEE	CLAIMS	(1) FOR	(2) NUMBER	(3) NUMBER	(4) RATE	(5) CALCULATIONS
INDEPENDENT CLAIMS MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$260.00 [] U.S. PTO WAS INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY Where an International preliminary examination fee as set forth in \$ 1.482 has been paid on the international application to the U.S. PTO: [] and the international preliminary examination report states that the criteria of novelty, inventive step (non-obviousness) and industrial activity, as defined in PCT Article 33(2) to (4) have been satisfied for all the claims presented in the application entering the national stage (37 CFR 1.492(a)(4))	FEE		FILED	EXTRA		
CLAIMS MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$260.00	[]*	TOTAL CLAIMS	30 - 20 =	10	x \$18.00 =	\$ 180.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$260.00 \$260.00 \$260.00 \$360.00		INDEPENDENT	18 - 3 =	15	x \$ 78.00 =	\$1,170.00
BASIC FEE** U.S. PTO WAS INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY Where an International preliminary examination fee as set forth in § 1.482 has been paid on the international application to the U.S. PTO: [] and the international preliminary examination report states that the criteria of novelty, inventive step (non-obviousness) and industrial activity, as defined in PCT Article 33(2) to (4) have been satisfied for all the claims presented in the application entering the national stage (37 CFR 1.492(a)(4))		CLAIMS				
EXAMINATION AUTHORITY Where an International preliminary examination fee as set forth in § 1.482 has been paid on the international application to the U.S. PTO: [] and the international preliminary examination report states that the criteria of novelty, inventive step (non-obviousness) and industrial activity, as defined in PCT Article 33(2) to (4) have been satisfied for all the claims presented in the application entering the national stage (37 CFR 1.492(a)(1))		MULTIPLE DEPEN	DENT CLAIM(S)	(if applicable) + \$2	260.00	\$ 260.00
Reduction by ½ for filing by small entity, if applicable. Affidavit must be filed. (note 37 CFR 1.9, 1.27, 1.28) Subtotal \$2,450.00 Total National Fee \$2,450.00 Fee for recording the enclosed assignment document \$40.00 (37 CFR 1.21(h)). (See Item 13 below). See attached "ASSIGNMENT COVER SHEET".		[] U.S. PTO WAS INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY Where an International preliminary examination fee as set forth in § 1.482 has been paid on the international application to the U.S. PTO: [] and the international preliminary examination report states that the criteria of novelty, inventive step (non-obviousness) and industrial activity, as defined in PCT Article 33(2) to (4) have been satisfied for all the claims presented in the application entering the national stage (37 CFR 1.492(a)(4))		\$ 840.00		
ENTITY (note 37 CFR 1.9, 1.27, 1.28) Subtotal \$2,450.00 Total National Fee \$2,450.00 Fee for recording the enclosed assignment document \$40.00 (37 CFR 1.21(h)). (See Item 13 below). See attached "ASSIGNMENT COVER SHEET".	0.4477					
Total National Fee \$2,450.00 Fee for recording the enclosed assignment document \$40.00 (37 CFR 1.21(h)). (See Item 13 below). See attached "ASSIGNMENT COVER SHEET".				, if applicable. Affic	davit must be filed.	- \$
Fee for recording the enclosed assignment document \$40.00 (37 CFR 1.21(h)). (See Item 13 below). See attached "ASSIGNMENT COVER SHEET".		Subtotal			\$2,450.00	
(See Item 13 below). See attached "ASSIGNMENT COVER SHEET".		Total National Fee			\$2,450.00	
TOTAL Total Fees enclosed \$2,450.00						\$
	TOTAL				Total Fees enclosed	\$2,450.00

i.	[X]	A check in the amount of \$2,450.00	to cover the above fees is enclosed
ii.	[]	Please charge Account No.	in the amount of \$.
	A dup	licate copy of this sheet is enclosed.	

**WARNING:

"To avoid abandonment of the application the applicant shall furnish to the United States Patent and Trademark Office not later than the expiration of 30 months from the priority date: * * * (2) the basic national fee (see § 1.492(a)). The 30-month time limit may not be extended." 37 C.F.R. § 1.495(b).



WARNING:

If the translation of the international application and/or the oath or declaration have not been submitted by the applicant within thirty (30) months from the priority date, such requirements may be met within a time period set by the Office. 37 C.F.R. § 1.495(b)(2). The payment of the surcharge set forth in § 1.492(e) is required as a condition for accepting the oath or declaration later than thirty (30) months after the priority date. The payment of the processing fee set forth in § 1.492(f) is required for acceptance of an English translation later than thirty (30) months after the priority date. Failure to comply with these requirements will result in abandonment of the application. The provisions of § 1.136 apply to the period which is set. Notice of Jan. 3, 1993, 1147 O.G. 29 to 40.

3.	[X]	А сору	copy of the International application as filed (35 U.S.C. 371(c)(2)):	
NOTE:	Section 1.495 (b) was amended to require that the basic national fee and a copy of the international application must be filed with the Office by 30 months from the priority date to avoid abandonment "The International Bureau normally provides the copy of the international application to the Office in accordance with PCT Article 20. At the same time, the International Bureau notifies applicant of the communication to the Office. In accordance with PCT Rule 47.1, that notice shall be accepted by all designated offices as conclusive evidence to the communication has duly taken place. Thus, if the applicant desires to enter the national stage, the applicant normally need only check to be sure the notice from the International Bureau has been received and then pay the basic national fee by 30 months from the priority date." Notice of Jan. 7, 1993, 1147 O.G. 29 to 40, at 35-36. Si item 14c below.			
	a. b. c.	[] [] [X] i. ii.	is transmitted herewith. is not required, as the application was filed with the United States Receiving Office. has been transmitted [X] by the International Bureau. Date of mailing of the application (from form PCT/IB/308): 02/09/99. [] by applicant on Date	
4.	[X] a. b. c. d.	A trans 371(c)([] [X] []	slation of the International application into the English language (35 U.S.C. (2)): is transmitted herewith. is not required as the application was filed in English. was previously transmitted by applicant on Date will follow.	
5.	[X]	[X] Amendments to the claims of the International application under PCT Article 19 (35 U.S.C. 371(c)(3)):		
NOTE:	The Notice of January 7, 1993 points out that 37 C.F.R. § 1.495(a) was amended to clarify the existing and continuing practice that PCT Article 19 amendments must be submitted by 30 months from the priority date and this deadline may not be extended. The Notice further advises that: "The failure to do so will not result in loss of the subject matter of the PCT Article 19 amendments. Applicant may submit that subject matter in a preliminary amendment filed under section 1.121. In many cases, filing an amendment under section 1.121 is preferable since grammatical or idiomatic errors may be corrected." 1147 O.G. 29-40, at 36.			
	a. b.	[] [] i. ii.	are transmitted herewith. have been transmitted [] by the International Bureau. Date of mailing of the amendment (from form PCT/IB/308): [] by applicant on	

have not been transmitted as

[X]

c.

applicant chose not to make amendments under PCT Article 19.

Date of mailing of Search Report (from form PCT/ISA/210): 06/07/99.

			The amendments or a statement that amendments have not been made will be transmitted before the expiration of the time limit under PCT Rule 46.1.
	6.	[X]	A translation of the amendments to the claims under PCT Article 19 (38 U.S.C. 371(c)(3)):
		a.	[] is transmitted herewith.
		b.	[] is not required as the amendments were made in the English language.
		c.	[X] has not been transmitted for reasons indicated at point 5(c) above.
	7.	[X]	A copy of the international examination report (PCT/IPEA/409)
			[X] is transmitted herewith.
			[] is not required as the application was filed with the United States Receiving Office.
	8.	[X] a.	Annex(es) to the international preliminary examination report [X] is/are transmitted herewith.
		b.	[] is/are not required as the application was filed with the United States
		0.	Receiving Office.
	9.	[X]	A translation of the annexes to the international preliminary examination report
4D		a.	[] is transmitted herewith.
M		b.	[X] is not required as the annexes are in the English language.
tud fast than than the H.J. Hen.	10.	[X]	An oath or declaration of the inventor (35 U.S.C. 371(c)(4)) complying with 35 U.S.C. 115
755 75 (755 75 (755)		a.	[] was previously submitted by applicant on
£į:		b.	Date [] is submitted herewith, and such oath or declaration
f=1		υ.	i. [] is attached to the application.
≒== ≒_j			ii. [] identifies the application and any amendments under PCT Article 19
4 4			that were transmitted as stated in points 3(b) or 3(c) and 5(b); and states that they were reviewed by the inventor as required by 37
14			C.F.R. 1.70. iii. [X] will follow.
¢ .			• •
	Other	r docume	ent(s) or information included:
	11.	[X]	An International Search Report (PCT/ISA/210) or Declaration under PCT Article 17(2)(a):
		a.	[X] is transmitted herewith.
		b.	[] has been transmitted by the International Bureau.
			Date of mailing (from form PCT/IB/308):
		c.	[] is not required, as the application was searched by the United States International Searching Authority.
		d.	[] will be transmitted promptly upon request.
		e.	[] has been submitted by applicant on
			Date
	12.	[X]	An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98:
		•	[V] is transmitted homowith

Also transmitted herewith is/are:

[X]

Form PTO-1449 (PTO/SB/08A and 08B).

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•	b.	[X] Copies of citations listed. [] will be transmitted within THREE MONTHS of the date of submission of requirements under 35 U.S.C. 371(c).
	c.	[] was previously submitted by applicant on Date
13.	[]	An assignment document is transmitted herewith for recording.
		rate [] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING PATENT APPLICATION" or [] FORM PTO 1595 is also attached.
14.	[X] a. b. c. d.	Additional documents: [X] Copy of request (PCT/RO/101) [] International Publication No. WO 99/41213 i. [X] Specification, claims and drawing ii. [] Front page only [] Preliminary amendment (37 C.F.R. § 1.121) [X] Other
		Form PCT/IPEA/408 (Written Opinion) Response to Written Opinion dated 16 February 2000 Form PCT/IB/308, Form PCT/IB/332
15.	[X] a. b.	The above checked items are being transmitted [X] before 30 months from any claimed priority date. [] after 30 months.
16.	[]	Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on, namely:
		AUTHORIZATION TO CHARGE ADDITIONAL FEES
WARNI	NG:	Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra claims are authorized.
NOTE:	reply, red	en request may be submitted in an application that is an authorization to treat any concurrent or future quiring a petition for an extension of time under this paragraph for its timely submission, as ating a petition for extension of time for the appropriate length of time. An authorization to charge all

NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

NOTE: "Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

- [X] The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the entire pendency of this application to Account No. __04-1105_.
 - [X] 37 C.F.R. 1.492(a)(1), (2), (3), and (4) (filing fees)

WARNING:

failure to pay the national fee within 30 months without neck the above box.

[X] 37 C.F.R. 1.492(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.492(d)), it might be best not to authorize the PTO to charge additional claim fees, except possible when dealing with amendments after final action.

- [X] 37 C.F.R. 1.17 (application processing fees)
- [X] 37 C.F.R. 1.17(a)(1)-(5)(extension fees pursuant to § 1.136(a).
- [] 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying . . . issue fee." From the wording of 37 C.F.R. § 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

[] 37 C.F.R. § 1.492(e) and (f) (surcharge fees for filing the declaration and/or filing an English translation of an International Application later than 30 months after the priority date).

SIGNATURE OF PRACTITIONER

Reg. No.: 33,860 Peter F. Corless

(type or print name of practitioner)

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